BONDIN, M.A.; SINYAKOV, O.G., inzh.; SHIRKEVIGH, N.S., inzh.; POPOVICH, M.V.; TATARNIKOV, M.N.; HALANDIN, A.A., inzh.; KHOLODKOV, N.Ye.; KOLEVATYKH, S.F., inzh.

Exchange of practices by the enterprises of economic councils.

Torf. prom. 39 no.6:28-35 '62. (MIRA 16:7)

1. Kalininskiy sovet narodnogo khozyaystva (for Bondin). 2.
2. Torfopredpriyatiye Vasilevichi II (for Sinyakov, Shirkevich, Balandin, Koholodkov). 3. Nachal'nik konstruktorskogo byuro Tesovskogo transportnogo upravleniya (for Popovich). 4. Starshiy inzh. konstruktorskogo byuro Tesovskogo transportnogo upravleniya (for Tatarnikov). 5. Yaroslavskoye torfopredpriyatiye Yaroslavskogo narodnogo khozyaystva (for Kolevatykh).

(Peat machinery—Technological innovations)

POPOVICH, M.V., inzh.

Mechanization of tie tamping operations in peat transportation.

Torf. prom. 40 no.2:15-18 163. (MIRA 16:4)

1. Tesovskoye transportnoye upravleniye.
(Railroads, Industrial—Maintenance and repair)
(Peat industry)

POPOVICH, M.V. [Popovych, M.M.]

Present-day philosophical irrationalism. Nauka i zhyttia 9
no.12:55-56 D '59.

(Philosophy)

SOV/124 58-4-4764

Translation from: Referativnyy zhurnal, Mekhanika, 1958 Nr4 p153 (USSR)

AUTHORS: Popovich, N.A., Shkol'nyy, P.A.

TITLE: Effect of Bond Failure Between Concrete and Raintorcement Upon

the Carrying Capacity of Reinforced concrete Components Subjected to Bending (Vliyaniye narusheniya svyazi armatury sbetonom na nesushchuyu sposobnost izgibayemykh zhelezobeton

nykh elementov)

PERIODICAL: V sb.: Khar'kovsk, obl. nauchno-tekhn. soveshchaniye po

zhelezobetonnym konstruktsiyam 13-15 dek. 1954 g. Khar kov,

1956, pp 29-33

ABSTRACT: Observational results are given for the behaviour of girders

and coverings brought to the point of failure. Comparison of data proposed by different authors for determination of flexure is made, and it is affirmed that flexure determined with the aid of the normal value of the modulus of elasticity of the reinforcement without taking into consideration the elongation of the concrete compares well with the experimental results.

1. Reinforced concrete--Failure 2. Concrete--Adhesion

Card 1/1 3. Steel--Adhesion J. K. Snitko

MIYAKHEROV, V.F. (Dneprodzerzhinsk); POPOVICH, N.A., kand.tekhn.nauk
(Khar'kov)

Recommendations that were not thought through. Osn., fund.i mekh.
grun. 3 no.6:26-27 161.
(Foundations)

MAKSIMOV, A.I., inzh.; POBEGAYLO, K.M., inzh.; MAKSIMOVA, V.I., inzh.; POPOVICH, N.A., inzh.; FILATOVA, L.I., inzh.; SHAKHANOV, V.S., inzh.

Economically expedient distribution of reserves in the electric power plants of the electric power system of the Donets Basin using a compensation technique. Elek.sta. 34 no.2:52-59 F '63. (MIRA 16:4)

(Donets Basin-Electric power plants)

CHIOGOLYA, G.; BERAL, Kh.; VASIL'YEV, P.; POPOVICH, N.; KOSMIN, Anna; MADZHARU, M.; YAKOB, A.; LAKATOSH, L.; DIAKU, D.; PATRASHKU, S.

Determination of bismuth in Rumanian drugs by means of EDTA titration. Apt.delo 8 no.6:67-69 N-D '59. (MIRA 13:4)

1. Iz Instituta po lintrolyu kachestva medikamentov Ministerstva zdravockhraneniya Rumynskoy Marodnoy Respubliki, Bukharest. (BISMUTH--ANALYSIS)

FOFOVICH. N. A.

Popovich, N. A.

"Investigation of Concrete and Reinforced-Concrete Curved Parts with Sharp Changes in Exterior Outlines. Min Higher Education USSR. Khar'kov Construction Engineering Inst. Chair of Reinforced-Concrete Structures. Rhar'kov, 1955 (Dissertation for the degree of Candidate in Technical Science)

SO: Knizhnaya letopis' No. 27, 2 July 1955

STUGREN, B.; POPOVICH, N. [Popovici, N.]

Analyzing the variability of external characters in the Eombina species of Rumania. Zool. zhur. 40 no.4:568-576 Ap '61.

(MIRA 14:3)

1. Department of Zoology, University of Babesh-Boylai (Kluzh, Feople's Republic of Rumania).

(Rumania--Amphibia)

VLADOVSKIY, Mikhail Semenovich; KOTIYAROV, P.F., inzh.; KIKIN, A.I., doktor tekhn. nauk, prof., retsenzent; POPOVICH, N.A., kand. tekhn. nauk, dots., retsenzent; OKHAYNETS, G.A., kand. tekhn. nauk, dots., otv. red.; NESTERENKO, A.S., red.; TROFIMENKO, A.S., tekhn. red.

[Open crane gantries; performance and design] Otkrytye podkranovye estakady; deistvitel'naia rabota i proektirovanie. Khar'kov, Izd-vo Khar'kovskogo gos. univ. im. A.M.Gor'kogo, 1961. 210 p. (MIRA 15:4)

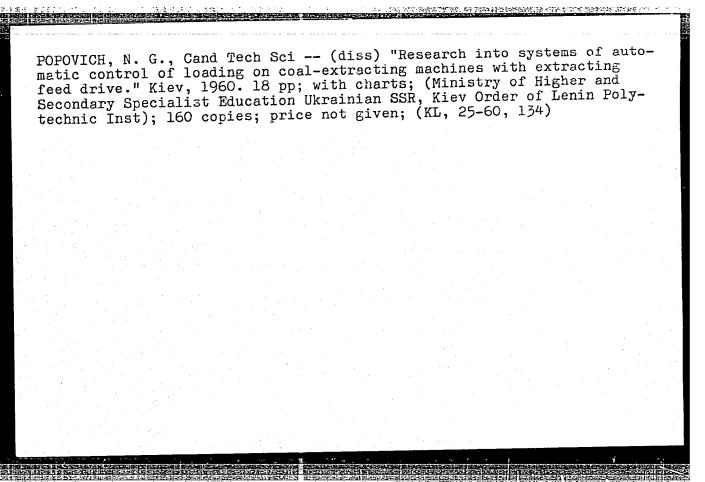
POPOVICH, N.G., assistent

Investigating the stability of automatic control systems for coal mining machinery with projected feeder parts.

Izv.vys.ucheb.zav.; gor.zhur. no.7:87-92 '60.

(MIRA 13:7)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. Rekomendovana kafedroy gornoy elektromekhaniki. (Coal mining machinery) (Automatic control)



Automatic control of the type UKR cutter-loader. Ugol' Ukr. 6 no.10:16-18 0 '62. (MIRA 15:10)

1. Kiyevskiy politekhnicheskiy institut.

(Coal mining machinery) (Automatic control)

VINOSLAVSKIY, Vasiliy Nikolayevich, kand.tekhn.nauk,dots.;

RYBCHENKO, Petr Filimonovich, kand.tekhn.nauk,dots.;

POPOVICH, Nikolay Gavrilovich, kand.tekhn.nauk,dots.;

POLYANSKIY, Nikolay Alekseyevich, inzh.; DANIL'CHUK,

Grigoriy Ivanovich, inzh.; VOLOTKOVSKIY, S.A., doktor

tekhn. nauk, prof., retsenzent; MIROSHNIK, A.M., kand.

tekhn. nauk, retsenzent; DENISENKO, S.A., inzh.,

retsenzent

[Automation of industrial processes in coal mines] Avtomatizatsiia proizvodstvennykh protsessov ugol'nykh shakht.

[By] V.N.Vinoslavskii i dr. Kiev, Tekhnika, 1964. 406 p.

(MIRA 18:3)

POPOVICH, N.G., kand.tekhn.nauk; IEPORSKIY, V.D., inzh.

Maximum form of automation of coal mining machines. Izv.vys.ucheb. zav.; gor.zhur. 5 no.9:120-123 62. (MIRA 15:11)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. Rekomendovana kafedroy elektrifikatsii i avtomatizatsii gornykh predpriyatiy.

(Coal mining machinery) (Automatic control)

POPOVICH, N.G., kand. tekhn. nauk; BAZHEVICH, P.A., inzh.

Dynamics of an automatic control system of size hoisting machinery with a magnetic power amplifier. Izv. vys. ucheb. zav.; gor. zhur. 7 no.11:153-160 

'64. (MIRA 18:3)

1. Kiyevskiy politekhnicheskiy institut. Rekomendovana kafedroy avtomatizatsii gornoy promyahlennosti.

POPOVICH, N.G., insh.

Equating the movements of coal mining machines with remote feed drive and their characteristics in steady work conditions. Izv.

vys.ucheb.zav.; gor.zhur. no.10:76-81 159. (MIRA 13:5)

1. Kiyevskiy politekhnicheskiy institut. (Coal mining machinery)

POPOVICH, N.G., inzh.

Automatic feed drive of two-motor coal mining machines. Ugol' Ukr.
4 no.10:20-21 0 '60. (MIRA 13:10)

(Coal mining machinery--Flectric driving)

(Automatic control)

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L'VOV, K.A.; POPOVICH, N.I.; SERGIYEVSKIY, V.M.; KONDIAYN, O.A.;

SPEPANOV, D.L.; GORSKIY, V.P.; BOYTSOVA, Ye.P.; BOGRETSOVA,

T.B.; GORSKIY, I.I., otv. red.; YEVSEYEV, K.P., otv. red.;

KRASNOV, I.I., red.; POKROVSKAYA, I.M., red.; DERZHAVINA, H.G.,

red.izd-va; GUROVA, O.A., tekhn. red.

[Resolutions of the Interdepartmental Conference on Working out of Unified Stratigraphic Schemes for the Urals] Resheniia mezhvedomstvennogo soveshchaniia po razrabotke unifitsirovannykh stratigraficheskikh skhem dlia Urala. Rassmotreno i utverzhdeno Mezhvedomstvennym stratigraficheskim komitetom 9 fevralia 1960 g. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 50 p. (MIRA 15:2)

1. Soveshchaniye po unifikatsii stratigraficheskikh skhem Urala i po sootnosheniyu drevnikh svit Urala i Russkoy platformy, Sverdlovsk, 1956. (Ural Mountains—Geology, Stratigraphic)

MALASHEVSKIY, V.N.; POPOVICH, N.I.

Structural-facies zones in the Cambrian of the Arctic and subarctic Urals. Mat. VSECEI no.67:81-94 \*61. (MIRA 15:12)

(Ural Mountain region—Geology)

L'VOV, K.A. POPOVICH, N.I.

Paleogeography and facies of the Ural Cambrian (Kara-Tau complex).

Mat. VSEGEI. Ob. ser. no. 28:45-50 '60. (MRA 14:6)

(Kara-Tau-Geology, Stratigraphio) (Kara-Tau-Paleogeography)

COUPTRY : USSR
CATTCORY : Plant Diseases. Cultivated Plants.

ABS. JCUR. : EZhSiol., No. 3, 1959, No. 11293

AUTHOR : Taelle, M. O., Skatins'ka, O. I., Popovici, N. S.
INST. : Control of the Viral Diseases of Tomatoes.

ORIG. PUB. : Kolgoupnik Ukraini, 1958, No. 6, 35

ABSTRACT : No abstract.

MATVIYENDO, V.K.; POPOVICH, H.V.

The ODTSG-135000/500 transformer. Biul.tekhn.-ekon.inform. no.12:
28-31 '60. (MIRA 13:12)

(Electric transformers)

POPOVICH, P., podpolkovnik, letchik-kosmonavt SSSR, Geroy Sovetskogo Seyuza

A road to the sky (to be continued). Av. i kosm. 45 no.9:77-80 162. (MIRA 15:10)

(Popevich, Pavel Romanovich, 1930-)

POPOVICH, P. [Popovych, P.], letchik-kosmonavt SSSR; KELDYSH, M.V.

April 12th, Astronautics Day. Znan. ta pratsia no.4:12 Ap 163.

(MIRA 16:6)

1. Prezident AN SSSR (for Keldysh).

(Astronautics)

POPOVICH, P., letchik-kosmonavt, Geroy Sovetskogo Soyuza

Space reveals its mysteries. Grazhd.av. 20 no.4:2-3 Ap ''63.

(MIRA 16:5)

(Outer space--Exploration)

ACCESSION NR: ANGOOLL98

8/9008/63/000/140/0002/0002

AUTHOR: Popovich, P. (Pilot-Cosmonaut); Kovalev, S. (It. Colonel)

TITIE: The celestial journey continues

SOURCE: Krasneya zvezda, 15 Jun 63, p. 2, cols. 3-6

TOPIC TAGS: Yostok-5; second day of flight

TEXT: The indication cited in a previous report (SPAC-4) that Popovich was in a tracking station in or near Moscw during the launch and flight of Vostok-5 is supported to some degree in this source. Discssing the second day of the flight, the authors state, "In the late evening, the Vostok-5 again flew over the capital of our Motherland. Warm greetings were transmitted from the control point to the ship."

SPAC - Item no. 9

DATE ACQ: 19Jun63

Card 1/1

Card 1/1

JDC: none

ACCESSION UR: AN3001193

s/9008/63/000/140/0002/0002

AUTHOR: Popovich, P. (Pilot-commonaut)

TITLE: Onward, motherland

SOURCE: Krasnaya zverda, 15 Jun 63, p. 2, col. 5-7

TOPIC TAGS: Popovich's voice contact with Baykovskiy

TEXT: From a previous report (SPAO-1) it is known that at the time of the Vostok-5 launch Popovich was in Moscow, from where he carried on voice contact with Bykovskiy. The present source indicates that this was a tracking station: "We are reporting from one of the control points. The last moments before launch are passing." It is also indicated that, besides Popovich and Kovaley, members of the State Commission (in cour e of the manned flight program), the directors of the control group, and other scientists were present in the room.

SPAO - Item no. 4

DATE ACQ: 18Jun63

Card 1/1

NIKOLAYEV, A., mayor, letchik-kosmonavt, Geroy Sovetskogo Soyuza;
POPOVICH, P., podpolkovnik, letchik-kosmonavt, Ceroy Sovetskogo
Soyuza

Around the earth 112 times. Av. i kosm. 45 no.9:71 162. (MIRA 15:10)

(Space flight)

POPOVICH, P., podpolkovnik, letchik-kosmonavt SSSR, Geroy Sovetskogo Soyuza

In a supersonic fighter. Av. i kosm. 45 no.11:21-25
'62. (MIRA 15:11)
(Popovich, Pavel Romanovich, 1930-)

POPOVICH, P., podpolkovnik, letchik-kosmonavt SSSR, Gercy Sovetskogo
Scyuza

Sonic barrier (to be continued). Av.i kosm. 45 no.10:26-30 162.

(Popovich, Pavel Romanovich, 1930-).

(Popovich, Pavel Romanovich, 1930-).

POPOVICH, P. [Popovych, P.], inzh.

Extending production of local building materials. Sil'.bud.
7 no.12:14 D '57. (MIRA 13:5)

1. Cherkasskoye oblastnoye upravleniye po stroitel'stvu v kolkhozakh.

(Cherkassy Province--Building materials)

POPOVICH, P., inzh.

Mechanized brick factories in Cherkassy Province. Sel'. stroi. 12

no.2:20 F '58.

l. Cherkasskoye oblastnoye upravleniye po stroitel stvu v kolkhe-zakh USSR.

(Cherkassy Province-Brick industry)

(MIRA 11:2)

POPOVICH, P., podpolkovník, Geroy Sovetskogo Soyuza, letchikkosmonavt SSSR, zasluzhennyy master sporta

Our starting area. Kryl.rod. 13 no.11:2 N '62. (MIRA 15:12)
(Air pilots)

# FOPOVICH, P. Soviets of workers' deputies and trade unions. Sov. profesciuzy 7 no. 7:13-18 J1 '58. (MIRA 11:8) 1. Predsedstel' Kiyevskogo oblastnogo soveta profescyuzov. (Kiev Province--Politics and government) (Trade unions)

BRZHESKIY, V. (g. Tikhvin); POPOVICH, P. (g. Yaroslavl'); BLAGOVESHCHENSKIY, M. (g. Ivanovo)

Veniamin Petrovich Manuilov; on the 45th anniversary of his medical activities. Vest, khir. 83 no.8:152-153 Ag '59. (MIRA 13:1) (MANUILOV, VENIAMIN PETROVICH)

CONTROL OF THE PROPERTY OF THE

	1. 08700-67 F3S-2/EWT(1)/EEC(k)-Z IJP(c) JG3/TT/ENS/GW ACC NR: AP7001638 SOURCE CODE: UR/0209/66/000/008/0026/0028
	AUTHOR: Popovich, P. (Cosmonaut; Hero of the Soviet Union)
•	ORG: none 59
	TITLE: Earth from orbit $oldsymbol{\mathcal{B}}$ ,
	SOURCE: Aviatsiya i kosmonavtika, no. 8, 1966, 26-28
	TOPIC TAGS: meteorologic satellite, satellite photography/Molniya-l meteorologic satellite
9	ABSTRACT: Cosmonaut P. Popovich writes as follows in this brief article on the earth as viewed from space: "The development of various systems of photographic and television equipment for spaceships is opening up new possibilities for the activity of man in space. We examined the photographs of the surface of our planet taken from the third satellite of
	the 'Molniya-1' system with great interest. A photograph taken with a long focal length objective shows the territory of the northern hemisphere: the Arctic Ocean, the northern part of the Atlantic Ocean, part of Europe and Asia. Comparing these photographs with what we observed from the 'Vostok' epaceships, it can be said that from heights of 30,000-40,000 km it is easy to observe the formation and movement of large
	Card 1/2 0934 1386

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ACC NR: AF7001638	/
cloud systems, cyclones and anticyclonesOn photographs taken from orbits at heights of 200-500 km it is possible to distinguish small	
details of the cloud cover and the carth's surface and determine the character of vegetation. Specialists believe that in the not distant	
future artificial earth satellites will be used to detect areas of	
agricultural crops sufforing from diseases (infrared methods probably	
will be used for this purpose), to determine the configuration of glaciers, which will be useful in forecasting the balance of fresh	
water in a number of regions of the earth, and in detection of under-	
ground rivers, using instruments recording the temperature difference over the stream and in adjacent regions". (A photograph of the earth	
taken by "Molniya-1" from an altitude of 30,000-40,000 km accompanies	
the text.) Orig. art. has: 3 figures. [JPRS: 38,230]	
SUB CODE: 22, O4 / SUBM DATE: none	
SUB CODE: 22, O4 / SOBM DATE: MONE	
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Card 2/2 net	

POPOVIJCH, P. P.

PA-75T75

USER/Medicine - Refrigeration Medicine - Cold, Therapy May/Jun 1948

"Further Modification of a Simplified Method of Freezing Histological Tissues," P. P. Popovisch, Chair of Path Anat, Yaroslavl Med Inst, 1 p

"Arkhiv Patologii" Vol I, No 3

In "Arkhiv Patologii" No 1 and 2, 1946, author described simplified method of freezing tissue specimens, using a freezing mixture of ice/snow and cooking salt instead of carbon dioxide. Present article describes modification of this apparatus which enables entire object to be cooled evenly. Apparatus has been placed in mass production.

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#### "APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342510006-9

POPOVICH, P.P.

On the history of goiter research; according to data on the Academy

On the history of goiter research; according to data on the Academy

of Chinese Popular Medicine. Probl.endok. 1 gorm. 5 no.4:105-107

(MIRA 13:2)

J.-Ag '59.

1. Iz kafedry patologicheskoy anatomii (zaveduyushchiy - prof. N.Te.

Tarygin) Yaroslavskogo meditsinskogo instituta.

(GOITER hist.)

3/026/63/000/001/001/007 A004/A126

AUTHORS:

Astronauts of the USSR, Heroes Nikolayev, A. G., Popovich, P. R.,

of the Soviet Union

TITLE:

How does the Earth look from outer space?

PERIODICAL:

Priroda, no. 1, 1963, I - IV

The two Soviet astronauts give a description of how the Earth looked from their space-ships and present a number of colored photos of coast lines, rivers, mountains and the boundary between day and night, taken during the flight. They point out that continents and oceans were clearly to distinguish, that the relief of the continents could be made out distinctly, even the single ridges of mountainous massives, such as the Tyan-Shan' and Himalaya. They saw from above thunderstorms and lightnings and could see the difference between cumulus and stratus clouds. When the space ship came out of the Earth's shadow, the horizon was rather contrasting, while nearer to the sun, the contrast was less pronounced. In looking down vertically, the colors appeared nearly in the same way as on Earth. The authors conclude in commenting on the possibilities of utilizing the results of these observations for further astronautical flights Card 1/2

DELONE, N.L.; POPOVICH, P.R.; ANTIPOV, V.V.; VYSOTSKIY, V.G.

Effect of cosmic flight factors in the satellite-spaceships
"Vostok-3" and "Vostok-4" on microspores of Tradescantia
paludosa. Kosm. issl. 1 no.2:312-325 S-0 '63. (MIRA 17:4)

ACCESSION NR: AT4042674

8/0000/63/000/000/0149/0153

AUTHOR: Delone, N. L.; Popovich, P. R.; Antipov, V. V.; Vysotskiy, V. G.

TITLE: Alterations in mitotic activity following space flights

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy\*konferentsii. Moscow, 1963, 149-153

TOPIC TAGS: microspore, spaceflight effect, mitotic activity, Tradescantia paludosa, Vostok 3, Vostok 4

ABSTRACT: Tradescantia paludosa microspores were cultivated in special biological cartridges on Vostok 3 and Vostok 4 to determine how conditions of space flight affect mitotic processes. In one experiment on Vostok 4, P. R. Popovich fixed cultures after an orbiting time of 56 hours. In two other tests, cultures were examined 18 and 48 hours after re-entry. Significant alterations in mitotic processes were observed as a result of exposure to conditions of space flight. The authors suggest that the basic mechanism of these alterations must have been weightlessness because other experiments have shown that gravitational forces and

Card 1/2

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DELONE, N.L.; POPOVICH, P.R.; ANTIPOV, V.V.; VYSOTSKIY, V.G.

New types of chromosome rearrangements in the microspores of Tradescantia paludosa under the influence of certain factors during spaceship flights. Dokl. AN SSSR 152 no.5:1227-1230 0 '63. (MIRA 16:12)

1. Predstavleno akademikom N.M.Sisakyanom.

X

Soyuza What does	earth look like f	rom space? Priroda (MI	52 no.1:I-IV RA 16:1)	
	(Astronautics)	(Earth—Surface)		

NIKOIAYEV, A.G., letchik-kosmonavt; POPOVICH, P.R., letchik-kosmonavt

We lived and worked in outer space. Priroda 51 no.9:10-16 S

(MIRA 15:9)

(Astronautics)

POPOVICH, P. R., Gercy Sovetskogo Scyuza, letchik-kosmonavt SSSR

The first Soviet team in space. Av. 1 kosm. 45 nc.9:49-51
(62.

(Space flight)
(Nikolaev, Andriian Grigor'evich, 1929-)
(Popovich, Pavel Romanovich, 1930-)

POPOVICH, P.V., starshiy nauchnyy sottudnik

Technology of cableway skidding of timber in mountains of Siberia.

(MIRA 16:5)

Trudy VSNIPILesdrev no.5:15-19 '62.

(Krasnoyarsk Territory--Lumber--Transportation)

11654

3/058/62/000/010/073/093 A061/A101

7-41

AUTHORS:

Dovgoshey, N. I., Chepur, D. V., Popovich, P. Yu.

TATLE:

Dependence of the degree of photosensitivity of mercuric iodide

samples on the frequency of an applied external field

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 10, 1962, 45, abstract 10E349 ("Dokl. i soopshch. Uzhgorodsk. un-t. Ser. Fiz.-matem. n.", 1961,

no. 4, 52 - 53)

It is shown that the sensitivity of mercuric iodide photoresistance cells fed by alternating voltage exceeds by several times their sensitivity in the case of constant voltage feeding. The explanation is that an alternating field does not permit the formation of a space charge that would lead to sample polarization.

[Abstracter's note: Complete translation]

Card 1/1

GAGARIN, Turiy, letchik-kosmonavt, Geroy Sovetskogo Soyuza, podpolkovnik;
TITOV, German, podpolkovnik, letchik-kosmonavt; NIKOLATEV, Andriyan,
mayor, letchik-kosmonavt; POPOVICH, Pavel, podpolkovnik, letchikkosmonavt

Two space years. Av.i kosm. 45 no.412-4 Ap '63. (MIRA 16:3)
(Space flight)

YUGOSLAVIA/General Problems of Pathology - Experimental Therapy.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75506

: Popovich, Radiveje; Rosic, Dragoslav; Putnik, Milan Author

Inst

: New Cytostatic Drug E-39. Title

Orig Pub : Med. Glasnik, 1957, 11, No 5, 191-194

Abstract : No abstract.

Card 1/1

CIA-RDP86-00513R001342510006-9" APPROVED FOR RELEASE: 06/15/2000

### POPOVICH, RADIVOSE

YUGOGLAVIA/Human and Enland Thysiology - Internal Secretion.

Abs Jour

: Ref Thur - Biol., No 4, 1958, 18483

Author

: Radivoje Popovich, Dragoslav Rosich, and Milan Putnik

Inst

Title

: Sulfamides as Hypoglycomic Agents.

Orig Può : Sroski arkhiv tselok. lekar., 1957, 815, No 2, 211-227

Abstract : No abstract.

Card 1/1

#### CIA-RDP86-00513R001342510006-9" APRROYED FOR RELEASE tO 6/115/2000

: Ref Zhur - Biol., No 5, 1958, 20159

Author

Popovich, S., Tot, E.

Inst

Title

: The Effect of Heteroauxine on the Seedlings of the Scotch

and Austrian Pines.

Orig Pub

: Rev. padurilor, 1956, 71, No 3, 177-179

Abstract

: Six day old seedlings of Pinus silvestris were subjected to a 48 hour treatment with solutions of heteroauxine in the following concentrations: 0.2, 0.1, 0.05, 0.02 and 0.01%. It was found that only in the variant having the 0.01% concentration of heteroauxine was there no plant loss. This indicates that the concentration specified is the closest to the maximum allowing viability in the seedling sprouts. In repeated tests with sprouts of P. silvestris and P. nigra the treatment with heteroauxine concentrations of 0.02-0.002% lasted 5 hours.

Card 1/2

NEDIN, V.V.; GEL'MAN, D.Z.; POPOVICH, S.P.; FRENKEL', F.Z.; FROLOV, N.S.

Ways of improving the ventilation of shafts and blocks in
working layers in double levels. Sbor.nauch.trud.Mriv.fil.

(MIRA 16:4)

IGD AN URSR no.1:249-57 '62.

(Krivoy Rog Basin-Mine ventilation)

GELIMAN, D.Z.; POPOVICH, S.F.; FRENKEL', F.Z.; FROLOV, N.S.

Dust formation during scraper haulage of ore. Eoriba sisil.
(MIRA 16:5)
5:174-177 '62.

1. Krivorozhskiy filial Instituta gornogo dela AN UkrSSR.
(Mine ventilation) (Ore handling)

#### POPOVICH, S.P.

Study of hydraulic control of the dust in the air during secondary crushing by the blasting method. Sbor.nauch.trud.Kriv.fil.IGD AN URSR no.1:25-31 '62. (MIRA 16:4) (Mine dusts-Prevention) (Blasting)

		Study of d galleries. '62.	ustofred Sbor.	ventila nauch.tru	tion of d.Kriv.	working	areas i AN URSR	n scrape no.1371 (MIRA	-88 16:4)		
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BOGACHEVSKIY, V.S., inzh.; POPOVICH, S.P., RYABOV, S.Ye.

Ways of improving labor conditions in ore haulage. Bezop. truda v prom. 8 no.11:15-18 N '64. (MIRA 18:2)

1. NIImetallurgventilyatsiya (for Bogachevskiy, Popovich).
2. Glavnyy inzh. shakhty im. Frunze Kirvorozhskogo basseyna (for Ryabov).

NIKITE, I.P., inch.; POPOVICH, S.P., inch.; TADULEV, V.S.; STETERI, A.

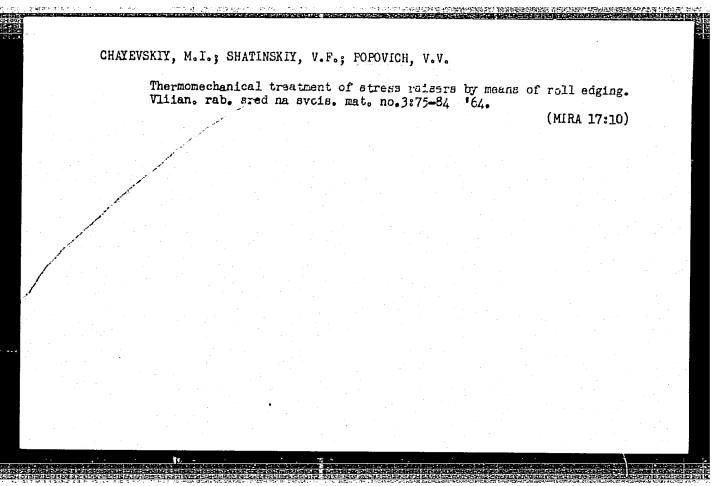
Controlling dust and gases in haulegowy galleries.

v pros. 5 no.11:10-12 E '61.

1. Friver 'day filial Institute gorange dela Ali Mark (included in the like of t

BOGACHEVSKIY, V.S.; POPOVICH, S.P.; TYUKH, I.I.

One of the potentials for increasing labor productivity in the haulage of ore in Krivoy Bog Basin mines. Met. i gornorud. prom. no. 2:51-52 Mr-Ap '64. (MIRA 17:9)



ENT(m)/ENP(w)/ENA(d)/T/ENP(t)/ENP(k)/ENP(b) Pf-4 t 32058-65 S/2723/64/000/003/0075/0084 ACCESSION NR: AT4049942 AUTHOR: Chayevskiy, M.I. (Candidate of technical sciences); Shatinskiy, V.F. Popovich, V.V. TITLE: Thermomechanical treatment of stress concentrators by rolling with rollers A CONTRACTOR OF THE PARTY OF SOURCE: AN UkrSSR. Fiziko-mekhanicheskiy institut. Vliyaniye rabochikh sred na svoystva materialov, no. 3, 1964, 75-84 TOPIC TAGS: thermomechanical treatment, strain hardening, stress concentrator, TOPIC TAGS: thermomechanical treatment, strain hardening, steel 40Kh rolling, steel strength, steel rolling, torsional deformation, steel 2Kh13, steel 40Kh 18 ABSTRACT: A method is suggested for strengthening steel at the stress concentrators by thermomechanical treatment consisting of heat treatment, in-rolling of material at the stress concentrators and partial strain hardening of the test piece (e.g. by overall torsional deformation). The main aspect studied in the present paper is the strengthening of steel at the stress concentrators by rolling under optimum conditions. Tests were carried out on cylindrical specimens of steel 2Kh13 and steel 40Kh, in the middle of which there was a stress-concentrating groove with a depth of 1 mm, a bottom radius of 0.2 mm and an angle of 46°. During thermomechanical treatment, the depth of the groove was increased to 1.5 mm b in-rolling with a 20 mm diameter roller that left  $\operatorname{Card}^{1/2}$ 

L 32058-65

ACCESSION NR: AT4049042

the bottom radius and groove angle unchanged. The rolling temperature was 500-600C, depending on the type of steel, and some samples were also subjected to torsional deformation. Samples were tested in air and also after coating by immersion into a molten eutectic alloy of lead and tin. Optimum thermomechanical treatment resulted molten eutectic alloy of lead and tin. Optimum thermomechanical treatment resulted in marked increases in strength at the stress concentrators, as evidenced by failures in marked increases in strength at the stress concentrators, as evidenced by failures of the samples through the unnotched diameters. Rolling-in at room temperature, however, had no significant effect. The authors conclude that optimum thermomechanical treatment of parts with stress concentrators, which may be semi-finished products, treatment of parts with stress concentrators, which may be semi-finished products, treatment of parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with increased uniform strength without excessive deformation. For some yields parts with strength and the part of the part of

ASSOCIATION: none

SUBMITTED: 06Jun63

ENCL: 00

SUB CODE: MM

NO REF SOV: 015

OTHER: 001

Card 2/2

EWI(m)/EWP(w)/EWA(d)/I/EWP(t) SOURCE CODE: UR/0020/66/167/006/1287/1290 ACC NR: AP6013898 AUTHOR: Chayevskiy, M. I.; Shatinskiy, V. F.; Popovich, V. V. ORG: Institute of Physics and Mechanics, Academy of Sciences, UkrSSR (Fiziko-mekhanicheskiy institut Akademii nauk UkrSSR) TITLE: Adsorption reduction in the work capacity of steel specimens in contact with a melt, and the effect of gaseous impurities SOURCE: AN SSSR. Doklady, v. 167, no. 6, 1966, 1287-1290 TOPIC TAGS: steel, fatigue strength, steel impurity, metal fest, material deformation ABSTRACT: The authors consider the long-term strength of various types of steel in lead-tin and lead-bismuth melts as contrasted with their strength in air and in a vacu um. Tests show that the Hong-term strength of Armco iron specimens is higher in air than in a vacuum. Testsoin vacuum show less scatter in experimental data since the de velopment of microscopic cracks in a vacuum is more uniform than this process in air. The durability of specimens in a melt is lower than in a vacuum since reliable wetting of the specimens by the melt before the tests is prevented by the formation of an oxide film on the surface of the specimens. For this reason, the oxygen from the melt penetrates easily into the steel. However, when the tests are conducted in a vacuum, the long-term strength of steel specimens in the melt is nearly the same as that of UDC: 669.1.539.(431+434) **Card** 1/2

specimens in a va	icum un to a		- 1 - Y			
melt penetrates i	into the meta.	l causing embr	ittlement and	a reduct	ion in the s	hort-term
strength. The ef It is found that	ffect of oxyge	en in cyclic d	eformation of	steel in	melts is co	nsidered.
with the melt mak	ces an effect:	ive barrier wh	ich protects	the specim	en from oxy	genation.
Orig. art. has:	4 figures.					
SUB CODE: 11/	SUBM DATE:	27Jul65/	ORIG REF:	007/	OTH REF:	000
		장성하다 인정복으로 이름이 기가 성상 기능을 하는 것이다.				
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14427-66 EWT(m)/EWP(w)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) ACC NR: AP6002111 MJW/JD/WW/SOURCE CODE: UR/0369/65/001/006/0654/0658 87 ુ નુ AUTHOR: Chayevskiy, M.I.; Shatinskiy, V.F.; Popovich, V.V. ORG: Physicomechanical Institute, AN Ukr SSR, L'vov (Fiziko-mekhanicheskiy institut TITLE: Role of oxygen in the adsorptive decrease of the strength of steel samples in AN UKT SSR) contact with melts SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 6, 1965, 654-658 TOPIC TAGS: oxygen, steel, adsorption, fatigue strength, lead, bismuth, tin, nonferrous ABSTPACT: Cyclic deformation of steels in melts considerably intensifies the diffusion liquid metal processes involved in the penetration of the melt or impurities into the steel. The role of oxygen in these processes was studied on 40Kh/and 1Kh18N9T steels. The fatigue strength of temper-hardened 40Kh steel in the melt of the lead-bismuth eutectic in contact with air exhibited a substantial drop, whereas in the presence of argon and absence of air this drop did not occur. In melts of the Pb-Sn and Pb-Bi eutectics, the dissolved Card 1/2

E 14427-66 ACC NR: AP6002111

oxygen had no effect on the fatigue strength of this steel. In the Pb-Bi melt, steel 1Kh18N9T, which has a greater affinity for oxygen that this melt, becomes saturated with oxygen coming from the melt, which in turn absorbs oxygen from the air. In the presence of a purified argon atmosphere, the oxygenation ceases, and the fatigue strength of the samples increases. Hence, both the melt and the oxygen dissolved in it participate in the adsorptive decrease of the strength of 1Kh18N9T steel in the Pb-Bi melt, which is in contact with air. In the Pb-Sn eutectic melt, intermetallic films formed on the surface of the steel act as a barrier protecting the steel from oxygen. It is concluded that in order to prevent the negative role of oxygen in reducing the strength of steels by adsorption, it is necessary either to use melts which form surface intermetallic films with the steel, or to alloy the melt with additional components which increase the affinity of the melt for oxygen, or to protect the melt from the action of oxygen. Orig. art. has:

SUB CODE: 07, 11 / SUBM DATE: 20Jun65 / ORIG REF: 008

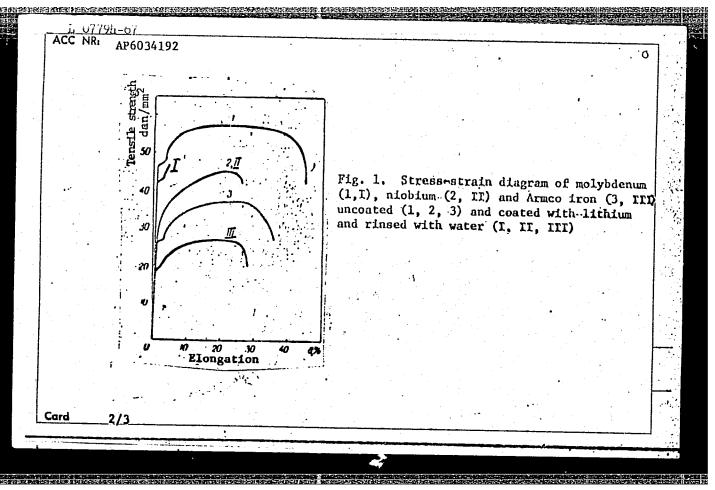
Card 2/2

FOPOVICH, V.V.; SHATINSKIY, V.F.; KONDRATENKOV, I.V.; CHAYEVSKIY, M.I.

Remodeling the MP-4G type machine for the purpose of conducting mechanical testing in vacuum or in an atmosphere of gases. Fiz.-khim. mekh. mat. 1 no.5:596-600 165. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov. Submitted April 17, 1965.

AUTHOR: Chayevskiy, M. I.; Popovich, V. V.  ORG: Physicomechanical Institute, AN UkrSSR, Lvov (Fiziko-mekha skiy institut AN UkrSSR)  TITLE: Preventing hydrogen embrittlement in parts coated with lithium during rinsing in various solutions  SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 5, 1966, 522-525  TOPIC TAGS: metal hydrogen embrittlement, iron, embrittlement, molybdenum embritment, lithium, seated metal conting, Authority  ABSTRACT: Rinsing with water is an easy and economical method of cleaning part working in contact with lithium, which have to be cleaned periodically. Water, the metal and lowers its strength and, especially, its ductility. There are two susceptible to hydrogen embrittlement, or prevent hydrogen diffusion. It was established earlier that metals which form ideal and diffusion. It was		' 'S	RCE CODE	T . Domandata	Chavevskiv M. T	AUTHOR:
TITLE: Preventing hydrogen embrittlement in parts coated with lithium during rinsing in various solutions  SOURCE: Fisiko-khimicheskaya mekhanika materialov, v. 2, no. 5, 1966, 522-525  TOPIC TAGS: metal hydrogen embrittlement, iron, ambrittlement, molybdenum embrittlement, lithium coated metal coating, lithium.  ABSTRACT: Rinsing with water is an easy and economical method of cleaning part working in contact with lithium, which have to be cleaned periodically. Water, the metal and lowers its strength and, especially, its ductility. There are two susceptible to hydrogen embrittlement, or prevent hydrogen diffusion. It was established earlier that metals which are	baniche-	9 / (Fiziko-mekharic	SSR,	Ingritute	sicomechanical T	ORG: Phy
ABSTRACT: Rinsing with water is an easy and economical method of cleaning part however, reacts with lithium, which have to be cleaned periodically. Water, the metal and lowers its strength and, especially, its ductility. There are two susceptible to hydrogen embrittlement, or prevent hydrogen diffusion. It was		/	parts co		•	,
ABSTRACT: Rinsing with water is an easy and economical method of cleaning part however, reacts with lithium, which have to be cleaned periodically. Water, the metal and lowers its strength and, especially, its ductility. There are two susceptible to hydrogen embrittlement, or prevent hydrogen diffusion. It was		5 1066 822 828	ialov. v	ekaya mekhanika	Fiziko-khimichesk	SOURCE:
established earlier that metals which form ideal solutions with hydrogen or solution and molybdenum form solutions with positive deviation from the ideal while niobium-hydrogen solutions show a negative deviation. Consequently, niobicard 1/3	erts er, es into two re not olutions	d of cleaning parts- iodically. Water, h readily diffuses in ity! There are two aterials which are no ffusion. It was th hydrogen or soluti to hydrogen embrittl ion from the ideal, Consequently, niobium	economic o be cle c hydrog ally, its hydrogen vent hyd; eal solu not suse	vater is an easy ithium, which had itm, producing strength and, extremental effect mbrittlement, or metals which for from ideal ones	Rinsing with wan contact with little reacts with lithle and lowers its simple detricted by the detricted earlier that measure deviation for and molybdonum a	ABSTRACT: working in however, i the metal ways of pr susceptibl establishe with a neg ment. Iro while niob



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ACCESSION NR: AP4009646

S/0147/63/000/004/0079/0085

AUTHOR: Popovich, V. Ye. TITLE: Application of the method of successive approximations to problems on plate

ridigity SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 4, 1963, 79-85

TOPIC TAGS: plate rigidity, plate rigidity calculation, successive approximation method,

critical force magnitude

ABSTRACT: A procedure for reducing the problem of the characteristic values of differential equations with variable coefficients to an algebraic equation relative to an unknown parameter is employed to determine the critical force magnitudes. The proposed method was used to obtain a general solution

$$u = \sum_{\mu=1}^{r} c_{\mu} \left[ \frac{x^{\mu-1}}{(\mu-1)!} + \sum_{\alpha=1}^{\infty} u_{\alpha}^{(\alpha)} \right]. \tag{1}$$

to the initial linear differential equation

Card

CIA-RDP86-00513R001342510006-9" **APPROVED FOR RELEASE: 06/15/2000** 

ACCESSION NR: AP4009646

$$u^{(r)} = \sum_{i=1}^{r} p_i(x) \cdot u^{(i)},$$
 (2)

where  $\mu^{(+)}$  and  $\mu^{(i)}$  are derivatives of series r and i from an unknown function u (r > t); p<sub>i</sub>(x) are variable coefficients, continuous for the interval [0, x]; the subscript  $\mu$  indicates the number of the fundamental function and the superscript n in u( $\mu$ ) designates the num-

ber of successive approximations completed to obtain the general solution. Further analysis illustrates the uniform convergence of the series comprising the solution. Three practical examples show divergencies from an accurate solution of the posed problem of 0.3, 0.9 and 2.5%, respectively. Orig. art. has: 1 graph, 34 formulas.

ASSOCIATION: None

SUBMITTED: 04Jan63

DATE ACQ: 12Feb64

ENCL: 00

SUB CODE: AP

NO REF SOV: 005

OTHER: 000

Card 2/2

RUMANIA / Microbiology. Microorganisms Pathogenic to Humanu and Animals.

7-3

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 33803

Author

: Popovich, Vlad-Segli

Inst

: Not given

Title

: Experiments on the Changes in Agglutinating and Hemolytic Serum Titers in Relation to the Time of Their Preparation

and Their Storage Conditions.

Orig Pub : Microbiol., parazitol. si epidemiol., 1957, 2, No 4, 354-

358.

Abstract : No abstract.

Card 1/1

是国际的大型的大型企业,可以不同的企业,但是是国际的企业的企业,但是是不可以的企业的企业,但是是是一种企业的企业,但是是一种企业的企业,而且是一种企业的企业, 1980年 - 1995年 -

IGNJACEV, Zivojin; JEVTIG, Zivojin; NIKULIN, Aleksandar; POPOVIG, Vojin

Lymphogranulomatos is of the hypophysis with diabetes insipidus and Simmonds' disease. Srpski arh. celok. 1ek. 87 no.12:1167-1170 D '59.

1. Patolosko-anatomski institut Medicinskog Fakulteta Univerziteta u Sarajevu, Upravnik: prof. dr Zivojin Ignjacev; II Interna klinika Medicinskog fakulteta Univerziteta u Sarajevu, Upravnik: prof.dr Miron Simic.

(SIMMONDS DISEASE compl.)
(HODGKIN'S DISEASE compl.)
(PITUITARY GIAND neopl.)
(DIABETES INSIPIDUS compl.)

GALYAPIN, Vasiliy Tikhonovich; SHCHERBAKOV, Sergey Aleksandrovich; POPOVICH, V.D., red.; LUCHKIV. M.R., tekhn. red.

[Tourists in the Carpathian Mountains; guidebook] Turisty v Karpatakh; patevoditel. Uzhgorod, Zakarpatskoe knizhnogazetnoe izd-vo, 1962. 172 p. (MIRA 16:1) (Carpathian Mountains-Guidebooks)

S/735/61/000/000/003/014

AUTHORS: Chayevskiy, M.I., Popovich, V. V., Karpenko, G.V.

A machine for the investigation of elastic-plastic torsional deformations.

Akademiya nauk Ukrainskoy SSR. Institut mashinovedeniya i avtomatiki. TITLE:

Mashiny i pribory dlya ispytaniy metallov. Kiyev, 1961, 19-25. SOURCE:

The design of a machine for torsional testing of steel specimens at high 1 temperatures (T), in contact with various fluid modia, and with large cyclic deformations, is described. Test data for normalized steel "50" at room temperature are adduced. The machine was developed to provide an experimental means for a determination of whether or not to include cyclically alternating torsional-stress conditions implying elastic-plastic deformation as reasonable design conditions for certain power-plant elements, such as tubes and boilers, which may undergo a relatively small number of such cycles in their operational life span. The vertically oriented specimen is clamped rigidly at its lower end. The upper, rotatable, straingage-dynamometer clamp is twisted by a 0.6-kw, 1410 rpm, reversible electric motor via a two-stage 1:30x 1:64= 1:1920 worm-gear train (angular rate - 4.6 rad/ min). The angular travel of the clamp is measured by a rheochord. The motorreversal switch is actuated by travel-limiting stops for fixed-deformation tests and

Card 1/2

S/735/61/000/000/005/014

AUTHORS: Maksimovich, G.G., Yanchishin, F.P., Popovich, V.V., Nagirnyy, S.V.,

Karpenko, G. V.

Machines for micromechanical endurance testing under variable tension TITLE:

in various media.

Akademiya nauk Ukrainskoy SSR. Institut mashinovedeniya i avtomatiki. SOURCE:

Mashiny i pribory dlya ispytaniy metallov. Kiyev, 1961, 41-46.

A machine is described in which inertial loading is used in the endurance testing of 1- to 3-mm dia microspecimens in various fluid media. Variable-tension testing methods are described, and test data reported on 1-mm dia steel-45 microspecimens in air, MC (MS) oil activated with 2% oleic acid, and a 3% watery solution of NaCl. Testing of microspecimens is attractive for the determination of the effect of environmental media on the static and cyclic fatigue strength of a material; in smaller specimens the ratio of the surface area to the cross-sectional area is greater than in large specimens. Testing machines for static microspecimen tests have been described elsewhere (cf. Roytman, I.M., Fridman, Ya.B. Mikromekhanicheskiy metod ispytaniya metallov - The micromechanical method of metals testing. Moscow. Oborongiz, 1950. Konoplenko, V. P., et al., Zavodskaya laboratoriya, v. 25, no.1, 1959. Regel, V.R., et al., ibid.). Variable-load testing is well known for large specimens, but little has been done for the testing of 1- to 3-mm dia microspecimens because of the difficulties inherent in the over-all precision and especially the exact Card 1/3

Machines for micromechanical endurance testing... S/735/61/000/000/005/014

centering required. In the authors' machine the specimen (surrounded by a beaker for tests in various fluid media) is suspended from an annular dynamometric holder equipped with surface wire strain gages. A prescribed weight, spring-suspended from the lower end of the specimen, constitutes the static tension load. Also suspended from the lower end of the specimen is a floating frame containing an eccentric weight which is flexible-shaft-driven by a 30-w d.c. motor at 3,000 to 10,000 rpm. A spring parallelogram attached to the vertical machine support absorbs any horizontal component of the vibration, and only the vertical component of the cyclic inertial load is borne by the specimen. A variable resistance in the feed circuit permits programmed variations in the inertial load. The strain-gage readings are taken on an MNO-2 (MPO-2) oscillograph. The annular dynamometer is precalibrated statically. The strain-gage signals are preamplified on a tensometric TY-6M (TU-6M) amplifier. All tests were made in tension only, the mean load (equal to the static load) was held constant or varied, and the inertial-load amplitude was held constant or varied. Test data on carbon steel "45" are reported. The static (or mean) tension was  $\sigma_{\rm m}=29.3~{\rm kg/mm^2}$ , the inertial load, with a frequency of 50 and 142 cps, was varied. Fatigue curves are shown. The fatigue limit at high stresses is found to be greater in fluid media than in air. At the 142-cps frequency the fatigue limit in air and in activated oil is attained at 2.5 · 107 cycles. There is no noticeabl effect of the activated oil on the fatigue limit on the basis of 108

Card 2/3

39043-66 EWT(m)/EWP(w)/EWP(j)/T/EWP(t)/ETI IJP(c) JD/WW/JW/1G/WE/DJ/RM ACC NR: AP6020909 SOURCE CODE: UR/0369/66/002/002/0143/0148 AUTHOR: Chayevskiy, M. I.; Popovich, V. V. ORG: Physicomechanical Institute, AN UkrSSR, L'vov (Fiziko-mekhanicheskiy institut TITIE: Evaluation of the action of corrosive media on the basis of thermodynamics of SCURCE: Fisiko-khimicheskaya mekhanika materialov, v. 2, no. 2, 1966, 143-148 TOPIC TAGS: metal deformation, liquid metal, thermodynamic characteristic, corrosion ABSTRACT: The main criterion determining the action of a metallic melt on a deformed structural metal is the thermodynamic activity of the solvent metal. It is shown that the softening or hardening of the metal can be evaluated from data on the heats of mixing, free energy and entropy phanges in the system, changes in the crystallisation temperature, and also from melting point diagrams and the electronic structure of the interacting atoms. A series of thermodynamic characteristics of metals, combined with atomic characteristics; thus permits one to predict the changes in the strength of a structural metal acted upon by a liquid metall medium. Furthermore, by introducing a third component into the binary system, one can effect certain desired changes in the strength of the structural metal. A table is given which lists data on the deviation of solutions from ideality for deformed metal - melt binary systems, and presents **Card** 1/2

changes in the mechanical properties of solid metals caused by metallic melts. Original art. has: 1 table and 7 formulas.										. Orig.		
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S/735/61/000/000/010/014

AUTHORS: Chayevskiy, M.I., Popovich, V.V.

TITLE: Multiplex mechanical testing on MII-47 (MP-4G) testing machines.

SOURCE: Akademiya nauk Ukrainskoy SSR. Institut mashinovedeniya i avtomatiki.

Mashiny i pribory dlya ispytaniy metallov. Kiyev, 1961, 90-94.

TEXT: A modification of the MII-47 (MP-4G) machine is described, which affords a significant broadening of the scope of testing on a single machine. Short-term high-temperature tensile tests in air and in liquid-metal fusions are described, and test data, in air and in a Pb-Sn eutectic fusion, of specimens of 2X13 (2Kh13) and 1X18H9T (1 Kh18N9T) are set forth. The modification was inspired by the need for tensile-testing machines for high-temperature operation. A few simple modifications rendered the endurance-testing machine MII-4F (MP-4G) usable for for tensile testing with automatic recording of the P=f(AI) curve. The modification comprises the installation of a reduction-gear-equipped electric motor for the displacement of the upper clamp at a prescribed constant rate, a change in the method of holding the specimen, and a change in the design of the clamps. New linear-displacement transducers were made for elongatic measurement. The lower end of the specimen is held by a short tube which is screwed from above into

Card 1/3

Multiplex mechanical esting ...

S/735/61/000/000/010

the center of an internally water-cooled disk. Two dynamometer rods are screw. . into the lower face of the same disk, with their lower ends fixed to the base of the machine. The upper end of the specimen is clamped into the upper traction member of the machine. A disklet is screwed to the upper end of the specimen and a tnin feeler rod is screwed through the hollow of the lower holder tube; the lower feeler rod and three feeler rods emanating from the upper disklet provide the two mechanical references for a rheostatic measurement of the elongation of the effective test segment of the specimen. A rack-and-pinion-driven rheochord transducer serves for large plastic deformations (Al=50 mm). For small elastic-plastic deformations of the order of 0.5-1.0 mm the relative longitudinal displacements of the central (lower-end) feeler rod and the three outer (upper-end) feeler rods serve to ovalize an initially circular annular spring equipped with surface wire strain gages. Similarly, annular dynamometer springs with wire strain gages can be used for more sensitive force measurements in lieu of the above-mentioned dynamometer roof. The force and elongation signals are fed to a standard compensation-type bosentiometric recorder similar to that used on the micromechanical testing machine of the NPM-0,2-MNON (IRM-0,2-MIFI) type. A panel-type coordinate recorder is currently being developed (cf. Gur'yakov, I.I. Priborostroyeniye, no. 12, 1959). The Institute of Mechanical Engineering and Automatics, AS UkrSSR, has constructed a compact portable device which draws the P=f(\Delta l) curve on paper sheets 300x x280 mm with an error of 0.5% cf. Chayevskiy, M.I., in zbornik "Temperaturni Card 2/3

Multiplex mechanical testing...

S/735/61/000/000/010/014

napruzhyennya v tonkostinnykh konstruktsiyakh - Temperature stresses in thinwalled structures," (in Ukrainian). Vyd-vo AN URSR, 1959; Chayevskiy, M.I., Kondratenkov, I.V., An Instrument for the recording of y=f(x,z) curves. In the present publication //. Test data for hollow specimens of 2X13 (2Kh13) steel, OD 10 mm, ID 5 mm, 1 30 mm) in air and in Pb-Sn eutectic. The only appreciable effect of the Pb-Sn eutectic (increased ductility) occurs at temperatures of 600-700°C. Similar tests with solid 1X18H9T (1Kh18N9T) steel specimens (same OD and length) did not reveal any effects on the tensile strength and ductility attributable to the Pb-Sn eutectic. This is in contrast with the improvement in the fatigue strength of notched samples of the same steel observed by M.I. Chayevskiy (see pp. 54-61 of the present publication, Abstract S/735/61/000/000/007/014). The present equipment can be adapted for creep tests with simultaneous imposition of a vibrational load by addition of the device developed by M.I. Chayevskiy and A.N. Tynnyy (see pp. 11-18 of the present publication, Abstract S/735/61/000/000/002/014), with the added installation of a damper required for a smooth transition through any resonancefrequency bands encountered during the acceleration of the vibrator to a desired speed. A universal or multiplex testing machine is thus achieved. There are 3 figures and the 5 Soviet references (4 Russian-language, 1 Ukrainian-language) cited in the abstract.

ASSOCIATION: None given.

Card 3/3

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5/124/62/000/011/017/0171

AUTHORS:

Maksimovich, G. G., Yanchishin, F. P., Popovich, V. V., Nagirnyy, S. V. and Karpenko, G. V.

TITLE:

Machines for micromechanical testing of metals for durability under variable extension in different media

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 11, 1962, 68, abstract 11V570 (In collection: Mashiny i pribory dlya ispytaniy metallov, Kiev, AN UkrSSR, 1961, 41-46)

TEXT: For fatigue testing of micro-specimens 1 - 3 mm in diameter under variable stress, a machine has been designed in which the variable load is realized by means of a vibrator with uniform rotation of unbalanced mass. Constant load is produced by weights suspended on spring through the vibrator. Total load is determined by ring dynamometer whose deformations are recorded by wire resistance tensometers. Programmed loading is possible by means of a d.c. motor with additional variable resistance in the supply circuit. Test data are given for specimens of steel in 45 different media. / Ab-Stracter's note: Complete translation. 7 Card 1/1

Thermomechan the weakenin no.5:1096-10	g effects of s	of machine urface-acti	par's to p	rotect them fro Dokl. AN SSSR (MIRA 1	152
l. Institut akademikom P	mashinovedeniy .A.Rebinderom.	ra i avtomat	iki AN Ukrs	SR. Predstavle	no
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Remoldeling of the MP-4G machine for the tensile test with automatic recording of the diagram P=f(AC). Zav.lab.27 no.2:216-219 '61. (MIRA 14:3)

1. Institut mashinovedeniya i avtomatiki AN USSSR. (Testing machines)

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	Overhead conver Mashinostroite	yor with a 1' no.6:9	bushed-ro Je '64.	ller singl	e-row chat (MII	in. RA 17:8)	
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YATSYUK, A.I., kand. tekhn. nauk; POPOWICH, V.V., inah.

Surface-grinding michine with a spring-supported table plate for polishing wood with abrasive wheels. Lis., bus. i der. proc. no.1:5-9 '65. (MIRA 18:12)

BOGATYREV, I.S.; POPOVICH, V.Ya., glavnyy vrach; SHUMILIN, I.N., glavnyy vrach.

Acute appendicitis and pregnancy. Akush. i gin. no.3:67-68 My-Je 153.

(MLRA 6:7)

1. Khankayskaya rayonnaya bol'nitsa Primorskogo kraya (for Bogatyrev and Popovich). 2. Galichskaya rayonnaya bol'nitsa Kostromskoy oblasti (for Bogatyrev and Shumilin).

(Pregnancy, Complications of) (Appendicitis)

5/147/62/000/004/010/019 E031/E113

SOURCE OF THE PROPERTY OF THE

AUTHOR:

Popovich, V.Ye.

TITLE:

Application of the method of successive approximations to problems of stability and oscillation of elastic

systems

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Aviatsionnaya tekhnika, no.4, 1962, 103-110

TEXT:

For the equation

(1) $= \lambda N \left[ y \right]$ 

and N[y] are linear differential operators of orders where M[y] m and n (m > n) respectively, with m homogeneous boundary conditions it is required to determine the eigenvalues  $\lambda$ , the algebra : equation for which is built up by successive approximations obtained from equations of the form

(7)

starting with the initial approximation  $M[y_0] = 0$ . Card 1/3

S/147/62/000/004/010/019 E031/E113

Application of the method of ...

The general solution of Eq.(1) has the form:

$$y = \sum_{i=1}^{m} c_{i} \left[ \varphi_{i} + \sum_{j=1}^{\infty} u_{ji}^{\star} \right]$$
 (8)

where the  $c_i$  are arbitrary constants, the  $\phi_i$  are solutions of  $M[y_0] = 0$  and the  $u_{ji}^*$  are partial solutions of Eq.(1) using the values  $u_{(j-1)i}^*$  on the right hand side. The infinite series converges for all values of i. Applying the boundary conditions, a homogeneous system of equations for the  $c_i$  are obtained whose a homogeneous system of equations for the  $c_i$  are obtained whose determinant yields an algebraic equation of infinite order for  $\lambda$ . By considering finite numbers of terms in this equation bounds on the roots can be derived and an estimate made of the error. If Eq.(1) has the form

where Card 2/3

Application of the method of ...

5/147/62/000/004/010/019 E031/E113

$$\Gamma[\lambda] = \sum_{k=0}^{k=0} 6^k (x) \lambda_{(k)}, \quad \forall \leq w$$

the above method can still be applied but the two sided estimate of the solution for  $\,\lambda\,$  is not obtained. There are 4 figures.

SUBMITTED: April 13, 1962

Card 3/3

MORACHEVSKIY, A.G.; POPOVICH, Z.P.

Liquid - vapor equilibrium and mutual solubility of components in the system tert-butyl alcohol - sec-butyl alcohol - water. Zhur.prikl.khim. 38 no.9:2129-2131 S \*65.

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.

The state of the s	. S '59	).	wine houses.				13:1)	
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POPENICHENKO

USSR / Human and Animal Morphology, (Normal and Pathological).

Nervous System.
Abs Jour : Ref Zhur - Biol, No 21, 1958, No 97055

: Popovichenko, A. L. Author

: Karaganda Medical Institute Inst

: On Age Morphology of the Stellate Ganglion Title

: Tr. Karagandinsk. med. in-ta, 1937, 1, No. 2, 135-139 Orig Pub

: It was shown on 304 stellate ganglia (SG) of men and cats Abstract

of various ages that in a j-6 months old human foetus, SG is lobular and covered by a delicate connective tissue capsule. With age, the size of SG increases and, at 7 years of age, reach 2.5 x 6 mm, and 11 x 6 mm at 17-20 years of age. Increase of the size of nervo cells of SG is also observed.

In the group age 30-40 years, atrophied cells and degene-

rated nerve fibers are encountered; in some cells, accumulations

Card 1/2

11

CIA-RDP86-00513R001342510006-9" **APPROVED FOR RELEASE: 06/15/2000** 

TRET YAK, Ivan Filippovich; POPOVICHENKO, Akim Petrovich-

[Lupine and collective farm economy; practices of collective farms in Chernigov Province, Polesye]. Liupin i ekonomika kolkhozov; opyt kolkhozov Chernigovskogo Poles'ia. Moskva, Gos. (MIRA 12:1) izd-vo selkhoz lit-ry, 1958. 39 p. (MIRA 12:1) (Chernigov Province--Lupine)

BAYER, V.G.; MASINO, M.A.; MASIOV, N.N.; POPOVICHENKO, G.D.;
SOBOLEV, N.N.; KALOSHIN, A.I., inzh., retsenzent;
SAFRONOV, S.P., inzh., retsenzent; NAUMOV, V.I., kand.
tekhn. nauk, red.; YURKEVICH, M.P., inzh., red. izd-va;
SHCHETININA, L.V., tekhn. red.

[Mechanic for repairing motor vehicles and tractors]
Slesar' po remontu avtomobilei i traktorov. [By] B.G.
Baer i dr. Moskva, Mashgiz, 1963. 318 p. (MIMA 16:10)
(Motor vehicles—Maintenance and repair)

(Tractors—Maintenance and repair)

POPOVICHENKE, C.D.

135-9-2/24

多数是最高的。 第155章 1955年(1955年)。 1955年(1955年)

AUTHORS:

Kazartsev, V.I., Professor and Doctor of Technical Sciences

and Popovichenko, G.D., Candidate of Technical Sciences

TITLE:

Resurfacing of Worn Automobile Parts by Automatic Arc-Welding under Flux (Vosstanovleniye iznoshennykh avtomobil'nykh deta-

ley avtomaticheskoy naplavkoy pod flyusom)

PERIODICAL:

"Svarochnoye Proizvodstvo", 1957, # 9, p 4-8 (USSR)

ABSTRACT:

The article describes in detail the technology of automatic resurfacing of cylindrical, normalized, improved, and hardened automobile parts made of carbon steel and of low-alloy steel. It is stated that at the present time such parts are manually resurfaced. A welding machine, consisting of a converted lather, a semi-automatic welder, and an electric generator, was utilized. Since it was almost impossible to remove the slag crust from the metal after surfacing small hollow parts, a special water nozzle (shown by Fig 1) was designed for cooling the inside of the part being resurfaced. With the use of this nozzle, no difficulty in removing slag was encountered. Heat removal was intensified when surfacing small solid cylindrical parts by applying in two

Card 1/2